

**STIC Biotechnology Systems Branch****RAW SEQUENCE LISTING  
ERROR REPORT**

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Application Serial Number: 10/505,328A  
Source: PC  
Date Processed by STIC: 4/28/06

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PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:  
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2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY  
FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.4.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

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1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>), EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
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Revised 01/10/06



PCT

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/505,328A

DATE: 04/28/2006

TIME: 09:38:57

Input Set : A:\Sequence.txt

Output Set: N:\CRF4\04282006\J505328A.raw

2 <110> APPLICANT: Korea Advanced Institute of Science and Technology  
 4 <120> TITLE OF INVENTION: CONSTRUCTION OF NOVEL STRAINS CONTAINING MINIMIZING  
 5 GENOME BY Tn5-COUPLED Cre/loxP EXCISION SYSTEM  
 7 <130> FILE REFERENCE: 02730.0020.PCUS00  
 9 <140> CURRENT APPLICATION NUMBER: 10/505;328A  
 C--> 11 <141> CURRENT FILING DATE: 2004-08-23  
 11 <150> PRIOR APPLICATION NUMBER: PCT/KR02/02033 -  
 12 <151> PRIOR FILING DATE: 2002-10-31  
 14 <150> PRIOR APPLICATION NUMBER: KR 10-2002-0009647  
 15 <151> PRIOR FILING DATE: 2002-02-22  
 17 <160> NUMBER OF SEQ ID NOS: 13  
 19 <170> SOFTWARE: KopatentIn 1.71  
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 22 <211> LENGTH: 2437  
 23 <212> TYPE: DNA  
 24 <213> ORGANISM: Artificial Sequence  
 26 <220> FEATURE:  
 27 <223> OTHER INFORMATION: chemically synthesized TnKGloxP  
 30 <400> SEQUENCE: 1  
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 33 gctgtctttt atacacatctt caaccatcat cgtatgaattt gagctcggtt cccgggttga 120  
 35 actgcccgtt ttgcggccgc aaaaattaaa aatgaagttt tgacggtatac gaacccocaga 180  
 37 gtccccgttca gaagaactcg tcaagaaggc gatagaaggc gatgcgtgc gaatcggggag 240  
 39 cggcgatacc gtaaaggcactg aggaaggcgg cagccatcc gcccggcaaggc ttttcagcaa 300  
 41 tatcacgggtt agccaaacgtt atgtttcgat agcggtccgc cacacccaggc cggccacagt 360  
 43 cgtatccatcc aaaaaaagegg ccatttttccca ccatgatattt cggcaaggcagc gcatcgccat 420  
 45 gggtaeagac gagatcttcg cctgtggggca tccgcgcctt gagectggcg aacagttcgg 480  
 47 ctggcgcgag cccctgtatcc ttttgcgttca gatcatectg atcgacaaga cccggcttcca 540  
 49 tccgagttacg tgctcgctcg atgcgtatgt tcgcttggtg tgcgtatggg caggtagccg 600  
 51 gatcaagcgtt atgdageegc cgcattgtcat cagccatgtt gatacttttccggcaggag 660  
 53 caagggtgaga tgacaggaga tccgtcccccg gcaacttcgcaataggc cagtccttc 720  
 55 ccgtttcaatcc gacaacgtcg agcacagtcg cgcggatggc gcccgttgtg gccagccacg 780  
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 59 aaagaacccgg ggcggccctgc gctgacagcc ggaacacggc ggcattcagag cagccgattt 900  
 61 tctgttgc ccagtcatag cggaaatagcc tctccacccca agggccggaa gaaacctcggt 960  
 63 gcaatccatc ttgttcaatc atgcgaaacg atccctcatcc tgcgttgc tccactatagat 1020  
 65 tatttgaagca ttatcgttgc ttatgttcatc atgagccggat acatatttgc atgtatgg 1080  
 67 aaaaataaac aaatagggggtt cccggccaca ttcccccggaa aagtggccacc tgcatcgatg 1140  
 69 aattgtatccg aagtccat totctagaaa gtatagggac ttccaaattgtt cggacaaggctt 1200  
 71 gatctggctt atcgaaaatta atacgactca ctatagggag accggaaatttcc attatgtt 1260  
 73 gagctcatcc atgcccattgtg taatcccagc agcaggataca aactcaagaa ggaccatgtg 1320  
 75 gtcacgtttt tcgttggat ctttcgaaag ggcaggatgtt gtcggacaggat aatggttgtc 1380  
 77 tggtaaaagg acaggccat cgccaaatttgg agtattttgt tgataatggt ctgtctgttg 1440

(pg. 5) ↗

**RAW SEQUENCE LISTING  
PATENT APPLICATION:**

DATE: 04/28/2006  
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**Input Set : A:\Sequence.txt**  
**Output Set : N:\CRF4\04282006\J505328A.raw**

79	aacggatcca	tcttcaatgt	tgtggcgaat	tttgaagtt	ggtttgattc	cattcttttg	1500
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83	aatgtttcca	tcttttttaa	aatcaatacc	ttttactcg	atacgatrraa	caagggtatc	1620
85	accttcaaac	ttgacttcag	cacgcgttct	gtagttcccg	tcatcttga	aagatatagt	1680
87	gcgttctgt	acataaccct	egggatggc	actcttggaa	aagtcatgcc	gttccatatg	1740
89	atccggataa	cggaaaaaagc	atggAACCC	ataagagaaa	gtatggacaa	gttggggcca	1800
91	ttgaacaggt	agttttccag	tagtgcataat	aaatttaaag	gtatgggttc	cgtatgttgc	1860
93	atcaccttca	cctctccac	tgacagaaaa	tttgtgcaca	ttaacatcac	catctaattc	1920
95	aacaagaatt	gggacaactc	cagtggaaag	ttttctctt	ttactcattt	tttctacegg	1980
97	tacccgggga	tcctettagag	tcgacactgea	gcacatgcag	cttggcgtaa	tcatggtcat	2040
99	agctgtttcc	tgtgtgaaat	tgttatecgc	tcacaattcc	acacaacata	cgagccggaa	2100
101	gcataaaagtg	taaagectgg	ggtgcctaat	gagtggacta	actcacaattt	attgcgttgc	2160
103	gtcactgc	cgcccttcag	tcggaaatc	caaggggcga	ttcgacgtcg	gtacccggcc	2220
105	ccccctcgag	ggacactata	acttgcata	gtatggatca	tacgaatgtt	tattaagggt	2280
107	tccggatct	ctagatgaga	ccttgcata	cgacactgcag	gcacatgcag	ttcagggttg	2340
109	agatgtgtat	aagagacgc	tgcattaaatg	aatcgccaa	cgcgccggga	gaggcggtt	2400
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116	<212>	TYPE:	DNA				
117	<213>	ORGANISM:	Artificial Sequence				
119	<220>	FEATURE:					
120	<223>	OTHER INFORMATION:	chemically synthesized TnCloxP				
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126	gctgtcttt	atacacatct	caaccatcat	cgatgaattt	gagctcggtt	ccgcaaaaat	120
128	taaaaatgaa	gttttaatc	aatctaaatg	atatatgtat	aaacttggtc	tgacagttac	180
130	caatgtttaa	tcagtgaggc	accaataact	gccttaaaaa	aattacgcgg	cgccctgcua	240
132	ctatcgca	tactgttta	attcattaa	cattctgcgg	acatggaa	catcacagac	300
134	ggcatgtga	acctgaatcg	ccagcgccat	cagcacctt	tcgccttgcg	tataatattt	360
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138	ggtaaaactc	acccagggt	tggctgagac	aaaaaacata	ttctcaataa	acccctttagg	480
140	gaaataggcc	agggttttcac	ogtaacacgc	cacatcttgc	gaatatatgt	gtagaaactg	540
142	ccggaaatcc	tcggttatt	cactccagag	cgatggaaaac	gtttcagttt	gctcatggaa	600
144	aacgggtgtaa	caagggtgaa	cactatccca	tatcaccoac	tcacccgttt	tcattgcac	660
146	acggaaattt	ggatgagat	tcatcaggcg	ggcaagaatg	tgaataaagg	ccggataaaa	720
148	cttgtctta	ttttcttta	cggttttaa	aaaggccgt	atatccagct	gaacggtotg	780
150	gttataaggta	cattgagca	ctgactgaaa	tgccctcaaaa	tgttctttac	gatccatgt	840
152	ggatataatca	acgggtgtat	atccgtgtat	ttttttctcc	attttagctt	ctttagctcc	900
154	tgaaaaatctc	gataactcaa	aaaatacgcc	cggtgtgtat	cttattatcat	tatgttgaa	960
156	gttggaaacct	cttacgtgcc	gatcaacgtc	tcattttgc	aaaagttgg	cccagggttt	1020
158	cccggtatca	acaggggacac	caggatttat	ttatctgtcg	aagtgtatctt	ccgtcacagg	1080
160	tattttatcg	gcgaaatgt	cgtcgggtga	tgctgcacaa	ttactgtat	agtgtatgtat	1140
162	gggttttttg	agggtgttcca	gtggcttctg	tttctatcg	catcgatgaa	ttgtatcgaa	1200
164	gttctatattc	tctagaaatgt	ataggaactt	cgaattgtcg	acaaggttga	tctgggtttat	1260
166	cgaatattat	acgactcaat	atagggagac	cggaaatctcg	gctcggtacc	ggggccccccc	1320
168	tegagggatc	taataactt	gtatagcata	cattatacga	agtatattat	agatctctta	1380
170	gagtgcaccc	gcaggcgtgc	aagtttcagg	gtttagatgt	gtataaagaga	cagctgcatt	1440
172	aatgtatcg	ccaaaccccg	qqqagagggcg	gtttgcgtat	ttggcgctt	tccgcttct	1500

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/505,328A

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Input Set : A:\Sequence.txt  
Output Set: N:\CRF4\04282006\J505328A.raw

174	cgctcaactgac	1511
177	<210> SEQ ID NO: 3	
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179	<212> TYPE: DNA	
180	<213> ORGANISM: Artificial Sequence	
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183	<223> OTHER INFORMATION: chemically synthesized OE sequence	
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191	<211> LENGTH: 34	
192	<212> TYPE: DNA	
193	<213> ORGANISM: Artificial Sequence	
195	<220> FEATURE:	
196	<223> OTHER INFORMATION: chemically synthesized loxP site	
199	<400> SEQUENCE: 4	
200	ataaacttcgt atagcataca ttatacgaag ttat	34
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204	<211> LENGTH: 996	
205	<212> TYPE: DNA	
206	<213> ORGANISM: Artificial Sequence	
208	<220> FEATURE:	
209	<223> OTHER INFORMATION: chemically synthesized KmR gene	
212	<400> SEQUENCE: 5	
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215	cgtcaagaag gogatagaag gcgatgcgtc gcaatcgaa agcggcgata ccgtaaagca	120
217	cgaggaagcg gtcagccccat tcgcgcgcca gctttcagc aataatcaggc gtggccaaacg	180
219	ctatgtcctg atagcggtcc gccacaccca gccggccaca gtcgatgaat ccagaaaacg	240
221	ggccattttc caccatgata ttccggcaagc aggcatcgcc atgggtcaeg acgagatct	300
223	cgccgtcgcc catcccgcc ttgagcctgg cgaacagtgc ggctggcgcc agccctgtat	360
225	gtcttttcgatc cagatccatcc tgatcgacaa gaceggcttc catccgagta cgtgcgtcgat	420
227	cgatgcgtat ttgcgttgg tggcgtatgg ggcaggtagc cggatcaagc gtatgcagcc	480
229	gccgcattgc atcagccatg atggatactt ttcggcagg agcaagggtga gatgacagga	540
231	gtccctggccc cggcacttcg cccaaatagca gcccggccct tcccgcttca gtgacaacgt	600
233	cgagcacacg tgcgcaagga acggccgtcg tggccagccca cgatagccgc gctgcgtcgat	660
235	tttggaggcc attcaggggca cggacaggat cggatgttgc aaaaagaacc gggccggccct	720
237	ggcgatcgacacg cggaaacacg cggccatcg agcggccat tgcgttgttgc gcccagtcat	780
239	agccgaaatag ctccatcc caaggggggg gagaacatgc gtgcacatca tcttgatcaa	840
241	tcatgaaaaa cgatccatcc cctgtcttgc gatccactag attattgaag catttatccat	900
243	ggttattgttc tcatgagccg atacatattt gaatgtatgg agaaaaataaa acaaataagg	960
245	gttccggcata cattttcccg aaaaggccca cctgca	996
248	<210> SEQ ID NO: 6	
249	<211> LENGTH: 947	
250	<212> TYPE: DNA	
251	<213> ORGANISM: Artificial Sequence	
253	<220> FEATURE:	
254	<223> OTHER INFORMATION: chemically synthesized GFP gene	
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Input Set : A:\Sequence.txt  
 Output Set: N:\CRF4\04282006\J505328A.raw

260	ggaccatgtg	gtcacgcrtt	tcgttgggat	cttgcggaaag	ggcagattgt	gtcgacaggt	120
262	aatggtttc	tggtaaaaagg	acaggccat	cgccaaatgg	agtatttgt	tgataatgg	180
264	cgtcttagtg	aacggatcca	tcttcataat	tgtggcgaat	tttgaagttt	gttttggattc	240
266	cattcttttg	tttgtctgcc	gtgtatata	catttgtgtt	tttatagttt	tactcgagtt	300
268	tgtgtccgag	aatgtttcca	tcttcattaa	aatcaatacc	ttttaactcg	atacgattaa	360
270	caagggtatc	accttcaaac	ttgacttcag	cacgcgttct	gtatgtcccg	tcatcttga	420
272	aagatatagt	gggttccctgt	acataaccc	cgggcatggc	acttttgaaa	aagtcatgcc	480
274	gtttcatatg	atccggataa	cgggaaaagc	atgttacacc	ataagagaaa	gtatgtacaa	540
276	gtgttggcca	tggAACAGGT	agttttccag	tagtgcataat	aaatttttagg	gtatgttttc	600
278	cgtatgtgc	atcacccatca	cccttcodac	tgacagaaaa	tttgtgcctca	ttaacatcac	660
280	catcttaat	aacaagaat	gggacaactc	cagtggaaaag	tttttctccor	ttactcattt	720
282	tttacccgg	tacccgggg	ttctctagag	tcgcactgca	gcatgcggaa	cttggcgtaa	780
284	tcatggccat	agctgttcc	tgtgtggaaat	tgttatccgc	tcacaattcc	acacacacata	840
286	cgagccggaa	gcataaaagtg	taaaggctgg	ggtgcctaat	gagtggacta	actcacatca	900
288	attgcgtgc	gtcaactgcc	cgtttccag	tcgggaaatc	caaggcgc		947
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292	<211>	LENGTH:	1069				
293	<212>	TYPE:	DNA				
294	<213>	ORGANISM:	Artificial Sequence				
296	<220>	FEATURE:					
297	<223>	OTHER INFORMATION:	chemically synthesized CmR gene				
300	<400>	SEQUENCE:	7				
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303	acagttacca	atgtttaatc	agtggggc	caataactgc	cttaaaaaaa	ttacccccgg	120
305	ccctgcacat	cacgcgtt	ctgtttaat	tcatatgg	ttctggccac	atggaaagcc	180
307	tcacagacgg	catgttac	ctgatcgcc	agcgcgttca	gcacccgtc	gccttgcgt	240
309	taatatttgc	ccatgggtt	aaacgggggg	aagaatgtt	ccatatttgc	cacgtttaaa	300
311	toaaaaactgg	tgttttttcc	ccagggtatt	gttgcacgtt	aaaacatatt	ctcaataaaad	360
313	ccttttaggg	aataggccat	gttttccac	tttgcacgtt	tttgcacgtt	atatatgtgt	420
315	agaaaactggc	ggaaatcg	gttgcatttca	ctccatgg	atggaaaacgt	tttgcgtttgc	480
317	tcatggaaaa	cggtgttaca	agggtgttaca	ctatccata	tcaccatgtt	accgttttgc	540
319	attggccat	ggatccgg	atggccat	atggccat	atggccat	aaataaggcc	600
321	ggataaaaat	tgtgtttt	tttttttac	gttgcattt	tttttttac	atccatgtt	660
323	acgggtctgt	tataggtaca	tttgcattt	gactgaaat	cttcatttttgc	tttttttac	720
325	tgccatgggg	atataatca	gggtgttata	ccatgtt	tttttttccat	tttgcgttttgc	780
327	ttatgttcc	aaaatcttca	taactcaaa	aaatccatgg	gtatgtat	tatttcattt	840
329	tggtaaaat	tggaaatctt	tacgttccgt	tcaacgttcc	attttgc	aaatggggcc	900
331	cagggtcttcc	cggttccat	agggacatca	ggatattttt	atctgttgc	tttgcgttttgc	960
333	gtcacaggtt	tttattccgc	gcaaaatgttgc	tcgggtgttgc	ctggccat	actgttttgc	1020
335	tgtatgttgg	tgttttttgc	gtgttccat	ggcttccgtt	tctatcgtt		1069
338	<210>	SEQ ID NO:	8				
339	<211>	LENGTH:	19				
340	<212>	TYPE:	DNA				
341	<213>	ORGANISM:	Artificial Sequence				
343	<220>	FEATURE:					
344	<223>	OTHER INFORMATION:	chemically synthesized primer-pMODPP-1				
347	<400>	SEQUENCE:	8				19
348	attcaggctg	cgttccat					
351	<210>	SEQ ID NO:	9				

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Input Set : A:\Sequence.txt  
 Output Set: N:\CRF4\04282006\J505328A.raw

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352 <211> LENGTH: 22
353 <212> TYPE: DNA
354 <213> ORGANISM: Artificial Sequence
356 <220> FEATURE:
357 <223> OTHER INFORMATION: chemically synthesized primer-pMODRP-1
360 <400> SEQUENCE: 9
361 tcagtggcg aggaagcgga ag
364 <210> SEQ ID NO: 10
365 <211> LENGTH: 28
366 <212> TYPE: DNA
367 <213> ORGANISM: Artificial Sequence
369 <220> FEATURE:
370 <223> OTHER INFORMATION: chemically synthesized primer-Tn5Ext
373 <400> SEQUENCE: 10
374 agcatacatt atacgaagtt atattaag
377 <210> SEQ ID NO: 11
378 <211> LENGTH: 35
379 <212> TYPE: DNA
380 <213> ORGANISM: Artificial Sequence
382 <220> FEATURE:
383 <223> OTHER INFORMATION: chemically synthesized primer-Arb1
386 <400> SEQUENCE: 11
W--> 387 ttgagcgata gacgtacgt nnnnnnnnnn gata
390 <210> SEQ ID NO: 12
391 <211> LENGTH: 20
392 <212> TYPE: DNA
393 <213> ORGANISM: Artificial Sequence
395 <220> FEATURE:
396 <223> OTHER INFORMATION: chemically synthesized primer-Arb2
399 <400> SEQUENCE: 12
400 ttgagcgata gacgtacgt
403 <210> SEQ ID NO: 13
404 <211> LENGTH: 25
405 <212> TYPE: DNA
406 <213> ORGANISM: Artificial Sequence
408 <220> FEATURE:
409 <223> OTHER INFORMATION: chemically synthesized primer-Tn5Int
412 <400> SEQUENCE: 13
413 tgcacctgca ggcatgcaag cttca

```

"N"  
 PLS explain locations, 35  
 See error explanation 20  
 on page 7.  
 =

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RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/505,328A

DATE: 04/28/2006  
TIME: 09:38:58

Input Set : A:\Sequence.txt  
Output Set: N:\CRF4\04282006\J505328A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:11; N Pos. 21,22,23,24,25,26,27,28,29,30

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VARIABLE LOCATION SUMMARY  
PATENT APPLICATION: US/10/505,328A

DATE: 04/28/2006  
TIME: 09:38:58

Input Set : A:\Sequence.txt  
Output Set: N:\CRF4\04282006\J505328A.raw

Use of n's or Xaa's (NEW RULES):

Use of n's and/or Xaa's have been detected in the Sequence Listing.

Use of <220> to <223> is MANDATORY if n's or Xaa's are present.

in <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

Seq#:11; N Pos. 21,22,23,24,25,26,27,28,29,30

ERROR Explanation: 2

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VERIFICATION SUMMARY  
PATENT APPLICATION: US/10/505,328A

DATE: 04/28/2006  
TIME: 09:38:58

Input Set : A:\Sequence.txt  
Output Set: N:\CRF4\04282006\J505328A.raw

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:387 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:11  
L:387 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:11  
L:387 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0